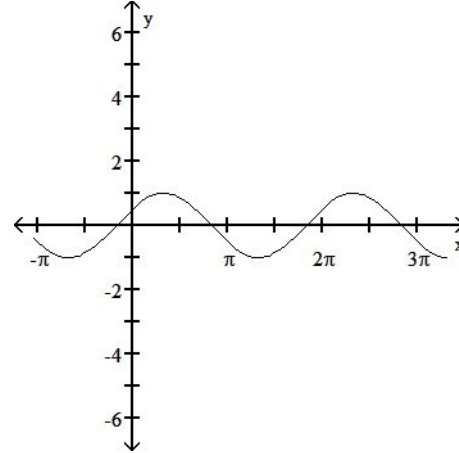


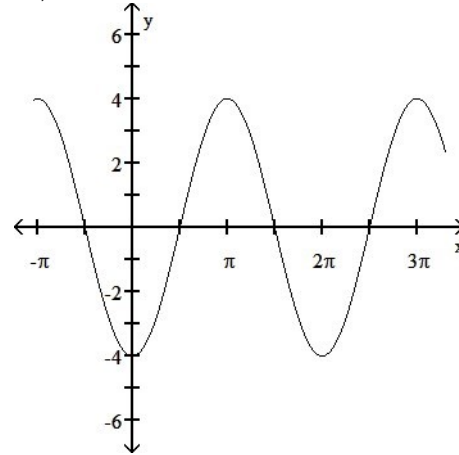
## Chapter 6 Spiral Review Solutions

- 1)  $69.39^\circ$
- 2)  $133^\circ 47' 24''$
- 3) 22.2 in.
- 4) 18 radians  
 $\frac{29\pi}{60}$
- 5)  $160^\circ$
- 6)  $57.3^\circ$
- 8)  $294 \text{ in}^2$
- 9) 0.11 radians
- 10)  $1954.77 \text{ ft}^2$   
 $\frac{1}{6}$
- 11)  $\frac{1}{6}$  cm/sec  
 $\frac{\sqrt{65}}{9}$
- 12)  $\frac{\sqrt{77}}{9}$
- 13) -
- 14) 0
- 15) 1
- 16) undefined  
 $\frac{\sqrt{2}}{2}$
- 17)  $\frac{2\sqrt{3}}{3}$
- 18)  $-\sqrt{2}$
- 19)  $\frac{\sqrt{2} + 2}{2}$
- 20) 1.04  
 $\frac{12}{13}$
- 22) -
- 23) III
- 24) III
- 25) 1  
 $\frac{\sqrt{77}}{2}$
- 26) -

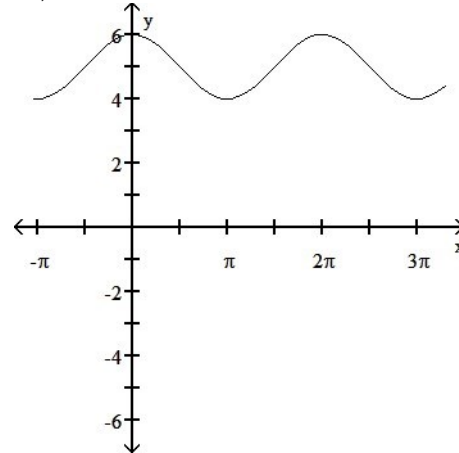
27)



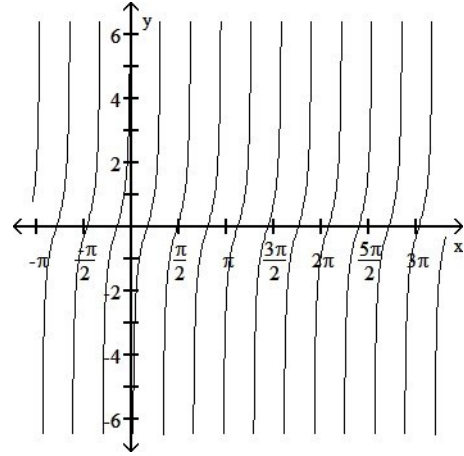
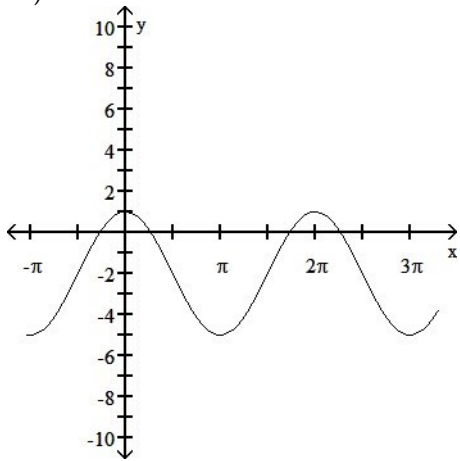
28)



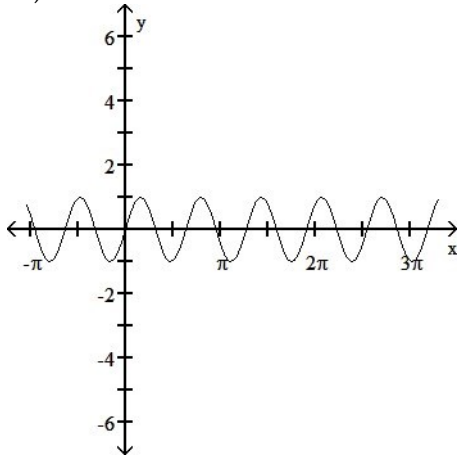
29)



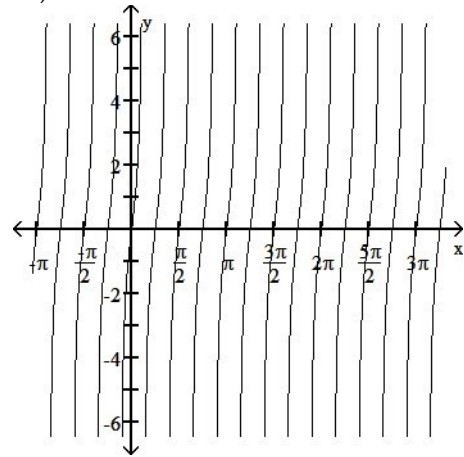
30)



31)



38)



32) 2

33)  $6\pi$

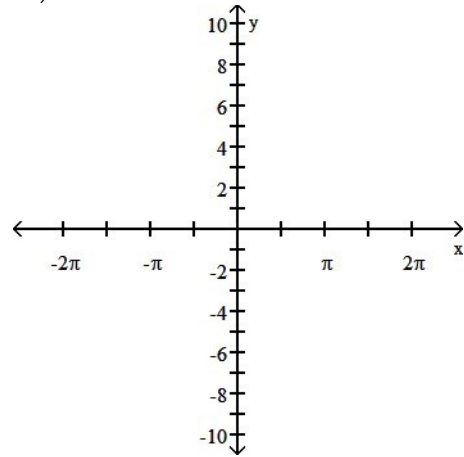
34)  $y = 5 \sin\left(\frac{2}{3}\pi x\right)$

35)  $y = 3 \sin\left(\frac{1}{2}x\right)$

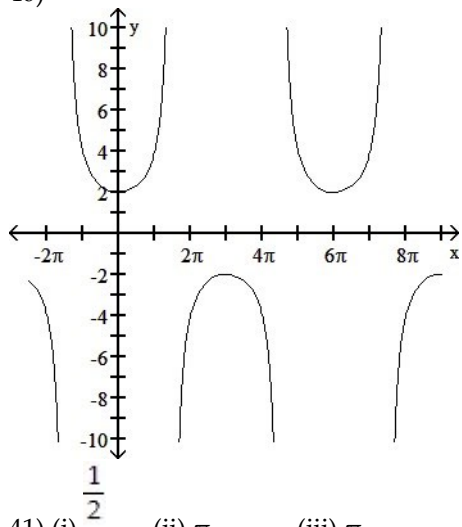
36)  $y = 5 \cos\left(\frac{\pi}{2}x\right)$

37)

39)



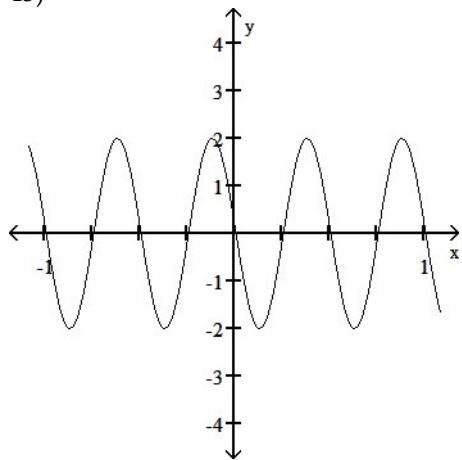
40)



41) (i)  $\frac{1}{2}$  (ii)  $\pi$  (iii)  $\pi$

42)  $y = 4 \sin\left(\frac{2}{3}x + \frac{2}{9}\pi\right)$

43)



44)

